

SUSPENSION ARRANGEMENT FOR A ROLL

ABSTRACT

A vibration-minimizing suspension mechanism for a press roll is provided. The
5 press roll and an opposing roll each having a rotational axis and cooperate to form a press
nip for imparting a linear load on a web passing therethrough. The linear load is oriented
through the rotational axes of the press and opposing rolls. The suspension mechanism
comprises a suspension arm having opposed ends and a medially-disposed pivot, wherein
the rotational axis of the press roll is rotatably engaged with one of the opposed ends.
10 The suspension arm is pivotably and adjustably mounted at the pivot to allow the pivot to
be adjusted in substantially parallel relation to the linear load. The adjustable pivot
thereby allowing a mounting line, defined by the pivot and the rotational axis of the press
roll, to be maintained in substantially perpendicular orientation to the linear load to
thereby minimize vibration in the press roll.